



QUARTERLY LETTER OF INFORMATION OF THE FEDERAL HORTICULTURAL BOARD.

UNITED STATES DEPARTMENT OF AGRICULTURE.

No. 28.

JULY, 1918

GENERAL NOTES.

The cooperation of over 6,000 nurserymen throughout the United States has been asked for the purpose of restricting the damage caused by the wheat-stem rust. The common barberry (*Berberis vulgaris*) is one of the important factors in the development of serious wheat rust epidemics, and the Department of Agriculture is conducting a systematic campaign to secure the eradication of this plant throughout the upper Mississippi Valley. Cards pledging not to ship the common barberry into this region, sent out by this Board, are being very generally signed by nurserymen with promises of hearty cooperation. The ultimate extermination of the barberry, an alternative host of this disease, will probably be followed by the enactment of a quarantine prohibiting the further movement of this plant into the cleaned-up area. It should be noted that the Japanese barberry (*Berberis thunbergii*) is not subject to this disease and is, therefore, not included in the clean-up campaign. Collaborators of the Board are requested to give such supervision and assistance as will further the objects of this campaign.

The quarantine on account of the gipsy and brown-tail moths has received its annual revision and has been reissued, effective July 1, 1918. Some very minor changes were necessary in the case of the gipsy moth, but no modifications of the quarantined area were necessary on account of the brown-tail moth. This quarantine, as heretofore, applies not only to forest and other plant products, but also to stone and quarry products.

To safeguard the possible future development of a bamboo industry in the United States, steps have been taken to exclude certain known dangerous diseases of bamboo by prohibiting the further entry of bamboo plants or cuttings, except as imported for experimental purposes by the United States Department of Agriculture. A hearing on this subject was called for July 2. It is not proposed to put any restrictions on the importation of bamboo timber or bamboo to be used for manufacturing purposes.

Importations of nursery stock have been so restricted by the War Trade Board that during the period of the war there will be very little further importation of such stock. A license for such importation must now be obtained from the War Trade Board which, however, does not relieve the importer from compliance with the regulations now enforced by the Department of Agriculture under the Plant Quarantine Act. The hearing on the subject of proposed additional restrictions on the entry of nursery stock for propagation referred to in the April number of this Letter of Information was duly held on May 28. The Board's recommendations, as a result of this hearing, to further restrict and prohibit the entry of classes of plants imported for propagation will be ready shortly for submittal, together with the necessary revision of the regulations.

The risk of possible entry of dangerous cotton pests with cotton and cotton waste used as packing for glassware, china, or other articles has been guarded against by an effort to secure cooperation on the part of the principal exporting countries to prevent the use of such packing material. In a recent Treasury order customs officers have been instructed to hold all importa-

tions of goods packed with cotton or cotton waste, and either to report the fact to the local inspector of the Federal Horticultural Board at the port where the merchandise is offered for entry or to require the importer to remove and destroy all objectionable material. The collaborators of the Federal Horticultural Board may occasionally be called upon to supervise the enforcement of this order.

It will be of interest to the collaborators of the Board to know that contracts have been awarded for the construction of fumigating houses on the Texas-Mexican border at El Paso, Del Rio, Eagle Pass, Laredo, and Brownsville. The largest of these houses, the one at Laredo, will have a capacity of 15 freight cars, and the smallest, the one at Del Rio, where there is no railroad connection, will be equipped for the fumigation of wagons and trucks. This fumigation project is probably the largest enterprise of the kind which has ever been attempted, exceeding even the cotton-fumigating plants at Boston. The object of these houses is to enable the fumigation of cars as an entirety, exteriorly and interiorly, including contents. The planning and supervision of these houses is under the direction of Mr. R. Kent Beattie, of the Board, who is in general direction of the control movement of cars, freight, etc., from Mexico into the United States.

C. L. MARLATT, *Chairman of the Board.*

NOTES ON ENTOMOLOGICAL INTERCEPTIONS.

This letter, with a few exceptions, includes practically the same insects which have been repeatedly enumerated in previous letters of information. One consignment of rhododendrons from Holland was found to be lightly infested with the larvæ of *Chimabacche fagella*, an insect reported to be injurious to the foliage of oak, beech, and birch in northern and eastern Ireland. Judging from the available literature on this pest, it is apparent that this insect is primarily injurious to forest and shade trees, and its occurrence on rhododendrons may possibly be accidental, although at the time the stock was examined there was evidence of foliage injury. At least three scale insects injurious to deciduous fruits have been intercepted, namely, the European peach scale (*Lexanium persicae*) on peach from England and *Berberis purpurea* from France, *L. coryli* on undetermined host from England, and *Parlatoria chinensis* on *Pyrus* from China.

Larvæ of the gold-tail moth (*Porthesia similis*) were collected on Japanese maple from Holland and *Cerasus avium* from France, consigned to Pennsylvania. Five nests of the brown-tail moth, one pupa of the gipsy moth, and six pupæ of the sorrel cutworm (*Acronycta rumicis*) have been taken on miscellaneous shipments from France.

E. R. SASSCER, *Chief Inspector.*

**LIST, BY COUNTRIES, OF PESTS COLLECTED AND REPORTED FROM APR. 1, 1918, TO JUNE 30, 1918,
INCLUSIVE.**

[The number in parentheses following name of host indicates the number of times reported if collected more than once.]

Country of origin and name of pest.	Host.
ARGENTINA.	
Insects:	
Brachypeplus sp. (Nitidulidae).....	Beans.
Bruchus obtectus (bean weevil).....	Do.
Bruchus prosopis (mesquite weevil).....	Prosopis juliflora.
Sitotroga cerealella (Angoumois grain moth).....	Beans.
AUSTRALIA.	
Insects:	
Bruchus sp. (weevil).....	Palm seed.
Oxycarenus luctuosus (Lygaeidae).....	Cotton seed.
Scarabaeid larva.....	In soil.
BELGIUM.	
Insect:	
Heliothrips haemorrhoidalis (greenhouse thrips).....	Azalea.
BERMUDA.	
Insects:	
Aspidiotus lataniae (scale insect).....	Sago palm.
Diaspis zamiae (scale insect).....	Palm offshoot.
BRAZIL.	
Insects:	
Anisolabis sp. (earwig).....	In packing box.
Araecerus fasciculatus (coffee-bean weevil).....	Nuts.
Araecerus sp. (Anthribidae).....	Do.
Aspidiotus lataniae (scale insect).....	Antigonon leptopus, Guava.
Bruchus obtectus (bean weevil).....	Beans (8).
Bruchus pectoralis (weevil).....	Beans (3).
Bruchus sp. (weevil).....	Do.
Calandra oryza (rice weevil).....	Beans (4), nuts.
Caryoborus sp. (Bruchidae).....	Nuts (4).
Diaspis echinocacti cacti (scale insect).....	Lygocactus.
Fulvius sp. (Miridae).....	Soil.
Howardia biclavus (mining scale).....	?
Lepidosaphes beckii (purple scale).....	Citrus.
Lophocateres pusillus (Siamese grain beetle).....	Nuts.
Orthaea vincta (Lygaeidae).....	Soil.
Orthezia insignis (scale insect).....	Coleus.
Pheidole sp. (ant).....	In soil.
Pseudoparlatoria parlatorioides (scale insect).....	Guava.
Pseudoparlatoria sp. (scale insect).....	Jaboticaba.
Pynoscelus surinamensis (Blattidae).....	In packing box.
Pyralid.....	Nuts.
Sciara sp. (Mycetophilidae).....	Mango.
Silvanus surinamensis (saw-toothed grain beetle).....	Nuts.
Sitotroga cerealella (Angoumois grain moth).....	Beans (4).
Stephanoderes sp. (Scolytidae).....	Nuts.
Tineidae.....	Do.
Tribolium ferrugineum (rust-red flour beetle).....	Do.
BRITISH GUIANA.	
Insects:	
Calandra oryza (rice weevil).....	Beans (2).
Lasioderma serricorne (cigarette beetle).....	Do.
CANAL ZONE.	
Insects:	
Calandra oryza (rice weevil).....	Apple seed.
Psocid.....	Do.
Silvanus advena (Cucujidae).....	Do.
Silvanus vulgaris (Cucujidae).....	Naseberry.
Targionia biformis (scale insect).....	Orchid.
Tetramorium guineense (ant).....	Mango seed.
Vinsonia stellifera (star scale).....	Maranon fruits.
Disease:	
Lasioidiplodia theobromae.....	Mangifera indica.

List, by countries, of pests collected and reported from Apr. 1, 1918, to June 30, 1918, inclusive—Continued.

[The number in parentheses following name of host indicates the number of times reported if collected more than once.]

Country of origin and name of pest.	Host.
CANARY ISLANDS.	
Insects:	
Aspidiotus hederæ (ivy scale).....	Cytisus maderensis.
Coccus hesperidum (soft brown scale).....	Do.
CEYLON.	
Insects:	
Coccotrypes sp. (Scolytidae).....	Archon tophoenix cunninghamii, Eutarpe edulis.
Lepidosaphes sp. (scale insect).....	Orchid.
Monomorium destructor (ant).....	Borassus flabelliformis.
CHILE.	
Insects:	
Araecerus fasciculatus (coffee-bean weevil).....	Peas.
Tineid larva.....	Sinapis nigra seed.
CHINA.	
Insects:	
Aspidiotus perniciosus (San Jose scale).....	Pyrus ussuriensis, Pyrus sp. (2).
Calandra oryza (rice weevil).....	Rice seed.
Chionaspis citri (scale insect).....	Citrus medica.
Diaspis pentagona (West Indian peach scale).....	Actinidia chinensis, Bush cherry.
Parlatoria chinensis (scale insect).....	Pyrus.
Prenolepis sp. (ant).....	Lilium sp.
Tettigonia sp. (Cicadellidae).....	Eucommia ulmoides.
Disease:	
Alternaria sp.	Oryza sativa.
COLOMBIA.	
Insects:	
Bruchus chinensis (weevil).....	Beans.
Bruchus obtectus (bean weevil).....	Beans (3).
Bruchus quadrimaculatus (weevil).....	Beans (2), chick-peas.
Bruchus sp. (weevil).....	Beans (3).
Calandra oryza (rice weevil).....	Beans (2), chick-peas, lentils, vetch.
Laria rufimana (weevil).....	Beans.
Lophocateres pusillus (Siamese grain beetle).....	Chick-peas.
Ptinid larva.....	Beans.
Pyralid.....	Beans (2).
Diseases:	
Botryodiplodia staurochaeta.....	Quercus sp.
Chaetodiplodia sp.....	Do.
Rhizoctonia solani.....	Solanum tuberosum.
COSTA RICA.	
Insects:	
Araecerus fasciculatus (coffee-bean weevil).....	Cedron.
Camponotus sp. (ant).....	?
Saissetia hemisphaerica (hemispherical scale).....	Solanum.
Disease:	
Pyrenochaeta sp.....	Phytelephas seed.
CURAÇAO, DUTCH WEST INDIES.	
Insect:	
Spermophagus sp. (Bruchidae).....	Manzanula seeds.
DOMINICA, BRITISH WEST INDIES.	
Insect:	
Pyralid.....	Sabinea cardinalis seed.
EGYPT.	
Insect:	
Bruchus sp. (weevil).....	Acacia catechu, Acacia wellifera (2).

List, by countries, of pests collected and reported from Apr. 1, 1918, to June 30, 1918, inclusive—Continued.

[The number in parentheses following name of host indicates the number of times reported if collected more than once.]

Country of origin and name of pest.	Host.
ENGLAND.	
Insects:	
Alphitophagus bifasciatus (Tenebrionidae).....	In packing, rose.
Apatela auricoma (dagger moth).....	Rose.
Aspidiotus britannicus (scale insect).....	Boxwood.
Aspidiotus hederae (ivy scale).....	Orchid.
Cerataphis lataniae (palm aphid).....	Do.
Coccus hesperidum (soft brown scale).....	Do.
Lecanium corni (European fruit Lecanium).....	Rose.
Lecanium coryli (scale insect).....	(?)
Lecanium persicae (European peach scale).....	Peach.
Lepidosaphes ulmi (oyster-shell scale).....	Crataegus, Mespilus.
Leptobyrza explanata (Tingitidae).....	Rhododendron.
Leptobyrza sp. (Tingitidae).....	Do.
Monarthropalpus buxi (box leaf miner).....	Boxwood, Kalmia latifolia.
Oleothreutidae.....	Cotoneaster acutifolia.
Sciara sp. (Mycetophilidae).....	Dahlia bulbs.
Trypetid larva.....	Rosa willmottiae.
Diseases:	
Botrytis sp.....	Rosa dividi, R. macrophylla, R. Willmottiae, and R. woodsii seed.
Exobasidium sp.....	Rhododendron Wilsoni.
Septoria leaf spot.....	Kalmia latifolia.
FIJI ISLANDS.	
Insect:	
Chionaspis sp. (scale insect).....	Derris uliginosa.
FRANCE.	
Insects:	
Acronycta rumicis (Noctuidae) (cocoon).....	Cydonia japonica umbellata, Deutzia, Fagus sylvatica, Forsythia fortunei, Mahaleb stock, Populus bolleana pyramid.
Acronycta sp. (Noctuidae).....	Rose, Spirea apulifolia, Weigelia lutea.
Aegeria sp. (Sesiidae).....	Populus bolleana.
Apatela auricoma (dagger moth).....	Apple seedlings, Mahaleb, Myrobolan (2), plum, rose, Spirea thunbergii, Viburnum opulus.
Bagworm pupa.....	Wistaria.
Bruchus sp. (weevil).....	Prosopis siliquastrum.
Cynipid.....	Rose seedlings.
Emphytus cinctus (sawfly).....	(Rose (4).
Eriosoma lanigera (wooly aphid).....	Apple stock (2).
Euporocitis chrysorrhoea (brown-tail moth) (nest).....	Apple stock, Crataegus flora, Fagus sylvatica, Prunus pissardi, Sorbus aucuparia.
Lachnosterna larva.....	In soil.
Lachnus sp. (aphid).....	Biota compressa.
Lecanium persicae (European peach scale).....	Berberis purpurea.
Lecanium sp. (scale insect).....	Ampelopsis, Camellia.
Lepidosaphes ulmi (oyster-shell scale).....	Boxwood (2), Malus floribunda.
Liparidae.....	Acer platanoides.
Malacosoma disstria (forest tent caterpillar) (eggs).....	Ulmus latifolia.
Noctuid cocoon.....	Myrobolan stock.
Noctuid pupa.....	Acer platanoides, Spirea multiflora.
Notolophus antiqua (European tussock moth) (egg mass).....	Doucin stock, Myrobolan, quince stock (2), Spirea arguta.
Pieris brassicae (imported cabbage worm) (chrysalis).....	Corylus avellana.
Porthesia similis (gold tail moth).....	Cerasus avium.
Porthetria dispar (gipsy moth) (pupat).....	Quince stock.
Psyche villosella (Psychidae) (cocoon).....	Populus pyramidalis.
Sphingid.....	Bignonia grandiflora.
Tetramorium caespitum (ant).....	Sedum.
Tortricid pupa.....	Mahonia aquifolium.
Tortrix pronubana (Tortricidae, subfam. Tortricinae).....	Mahonia.

List, by countries, of pests collected and reported from Apr. 1, 1918, to June 30, 1918, inclusive—Continued.

[The number in parentheses following name of host indicates the number of times reported if collected more than once.]

Country of origin and name of pest.	Host.
FRANCE—continued.	
Diseases:	
Bacterium tumefaciens (crown gall).....	Apple stock (3), Betula atropurpurea, cherry stock, Euonymus japonica, fruit stock, Mahaleb stock, pear stock, rose stock (4).
Bacterium tumefaciens (hairy root).....	Malus sylvestris.
Botrytis cinerea.....	Ornamentals.
Diplodia sp.....	Livistona australis.
Verticillium.....	Spirea.
GABUN, AFRICA.	
Insect:	
Calandra oryza (rice weevil).....	Owalla seed.
GUATEMALA.	
Insects:	
Aeolothripoid larva.....	Chayote.
Aspidiotus lataniae (scale insect).....	Avocado.
Aspidiotus sp. (scale insect).....	Avocado (2).
Chrysomphalus sp. (scale insect).....	Do.
Coccinae (soft scale).....	Avocado.
Coccus elongatus (scale insect).....	Do.
Coccus sp. (scale insect).....	Do.
Diaspis sp. (scale insect).....	Do.
Disease:	
Colletotrichum sp.....	Do.
HAWAII.	
Insects:	
Diaspis pentagona (West Indian peach scale).....	Litchi.
Saissetia sp. (scale insect).....	Do.
Diseases:	
Pestalozzia funerea.....	Nephelium litchi.
Sporotrichum sp.....	Litchi chinensis.
Trichothecium roseum.....	Do.
HOLLAND.	
Insects:	
Agelastica alni (Chrysomelidae).....	Juniperus fitzeriana.
Amphidasys betularius (Geometridae).....	In soil.
Apatela auricoma (dagger moth).....	Azalea viscosa, rose, spirea, ?.
Aphis sp. (aphid).....	Juniper.
Blabophanes crocicapitella (Tineidae).....	Narcissus bulbs.
Chimabacche fagella (Oecophoridae).....	Rhododendron.
Gracilaria zachrysa (leaf miner).....	Azalea (4).
Hibernia aurantiana (Geometridae) (pupae).....	Rhododendron.
Julus sp. (milliped).....	Peony bulbs.
Lecanium corni (European fruit Lecanium).....	Boxwood.
Lepidosaphes ulmi (oyster-shell scale).....	Boxwood (9), Vaccinium sp., ?.
Leptobyrssa explanata (Tingitidae).....	Rhododendron.
Leptobyrssa rhododendri (Tingitidae).....	Do.
Noctuid.....	Crataegus.
Notolophus antiqua (European tussock moth) (egg mass).....	Cerasus sp., linden (American), rose (2).
Notolophus sp. (Liparidae).....	American beech, sugar maple.
Pieris sp. (Pieridae).....	Rose, spirea.
Porthesia similis (gold-tail moth).....	Japanese maple.
Psylla buxi (box psylla).....	Boxwood (6).
Pulvinaria vitis (scale insect).....	Yew.
Diseases:	
Bacterium tumefaciens (crown gall).....	Azalea (2), boxwood, cherry (weeping), rose.
Botrytis cinerea.....	Rose.
Exobasidium sp.....	Rhododendron.
Pestalozzia guepini.....	Rhododendron (2).
Pestalozzia sp.....	Rhododendron.
Schizothyrella sp.....	Aucuba.
Sphaeropsis malorum.....	Malus (ornamental).
Volutella buxi.....	Boxwood.

List, by countries, of pests collected and reported from Apr. 1, 1918, to June 30, 1918, inclusive—Continued.

[The number in parentheses following name of host indicates the number of times reported if collected more than once.]

Country of origin and name of pest.	Host.
HONDURAS.	
Insects:	
Aeolothripoid larva.....	Persea americana.
Diaspis echinocacti cacti (scale insect).....	Cactus dyeri.
INDIA.	
Insects:	
Bruchus sp. (weevil).....	Iephresia candida.
Corticaria sp. (Lathridiidae).....	Solanum khasianum.
JAPAN.	
Insects:	
Agromyza websteri (wistaria gall fly).....	Wistaria.
Aspidiotus hederæ (ivy scale).....	Ilex crenata.
Aspidiotus sp. (scale insect).....	Japanese maple.
Cacoecia similis (Tortricidae).....	Pine.
Calandra oryza (rice weevil).....	Papaver somniferum.
Cerambycid larva.....	Flowering cherry.
Chionaspis wistariæ (wistaria scale).....	Wistaria multijuga, wistaria.
Chionaspis sp. (scale insect).....	Tamarix.
Cicada eggs.....	Camellia.
Diatraea sp. (Pyralidae).....	"Rose bamboo" sugar cane.
Gracilaria zachrysa (leaf miner).....	Azalea.
Haptoneus sp. (Nitidulidae).....	"Rose bamboo" sugar cane.
Leucaspis japonica (scale insect).....	Japanese maple.
Pseudaonidia duplex (scale insect).....	Azalea, camelliae.
Pseudaonidia paeoniae (scale insect).....	Azalea hinode-giri.
Pseudococcus sp. (mealybug).....	Pine (umbrella), Sciadopitys verticillata.
Psyllid sp.....	Azalea.
Sesiid larva.....	Prunus pseudo-cerasus.
Silvanus surinamensis (saw-toothed grain beetle).....	Papaver somniferum.
Tenebroides mauritanica (Trogositidae).....	Do.
Diseases:	
Pestalozzia sp.....	Epigaea asicatica.
Sclerotinia sp.....	Rasphanus sativus.
JAVA.	
Insects:	
Araecerus fasciculatus (coffee-bean weevil).....	Pangium edule.
Aspidiotus sp. (scale insect).....	Pangium leaves.
Cardiastethus sp. (Anthecoridae).....	Pangium edule.
Cathartus sp. (Cucujidae).....	Do.
Dialeurodes sp. (white fly).....	Do.
Dolichoderus bituberculatus (ant).....	Do.
Lasioderma serricorne (cigarette beetle).....	Indigofera suffruticosa seed.
Mycetophilid larva.....	Pangium edule.
Phenacaspis sp. (scale insect).....	Pangium leaves.
Disease:	
Capulospora sp.....	Canarium mikoinensis.
MEXICO.	
Insects:	
Aspidiotus lataniae (scale insect).....	Cactaceae.
Belonia unicostata (Lathridiidae).....	Vitis sp.
Bruchus obtectus (bean weevil).....	?
Chrysomphalus dictyospermi (scale insect).....	Attalea cohune oleaginosa.
Disease:	
Ustilago maydis.....	Zea mays.
NEW ZEALAND.	
Insect:	
Trichothrips sp. (thrips).....	Leptospermum seed.
PANAMA.	
Insect:	
Hemichionaspis minor (scale insect).....	Yuca.

List, by countries, of pests collected and reported from Apr. 1, 1918, to June 30, 1918, inclusive—Continued.

[The number in parentheses following name of host indicates the number of times reported if collected more than once.]

Country of origin and name of pest.	Host.
PARAGUAY.	
Insect: Caryoborus sp. (Bruchidae).....	Cocoa bean.
PERU.	
Insects: Agromyzid pupa case.....	Herb used for tea.
Bruchus sp. (weevil).....	Beans (2).
Calandra oryza (rice weevil).....	Chick-peas.
Pagiocerus rimosus (Bostrichidae).....	Do.
Polygnotus sp. (Platygasteridae).....	Herb used for tea.
Syrphidae.....	Do.
Diseases: Diplodia perseana.....	Avocado.
Phoma sp.....	Zea mays.
PHILIPPINE ISLANDS.	
Insects: Aonidiella sp. (scale insect).....	Citrus excelsa.
Aspidiotus lataniae (scale insect).....	Aleurites trisperma.
Lepidosaphes beckii (purple scale).....	Citrus excelsa.
Parlatoria pergandei (chaff scale).....	Do.
Prenolepis sp. (ant).....	Aleurites trisperma.
PORTO RICO.	
Insects: Calandra oryza (rice weevil).....	Dioscorea sp.
Camponotus sp. (ant).....	Yam tubers.
Carpophilus dimidiatus (Nitidulidae).....	Dioscorea sp.
Carpophilus sp. (Nitidulidae).....	Yam tubers.
Cermatia forceps (common house centipede).....	Do.
Euborellia annuleipes (Forficulidae).....	Dioscorea sp.
Monomorium floricola (ant).....	Yam tubers.
Nitidulid larva.....	Dioscorea sp.
Poduriid.....	Yam tubers.
Prenolepis longicornis (ant).....	Do.
Pseudococcus adonidum (long-tailed mealybug).....	Dioscorea sp.
Pseudococcus bromeliae (pineapple mealybug).....	Calathea allouya (2).
Pseudococcus citri (common mealybug).....	Dioscorea sp.
Pseudoparlatoria ostreata (scale insect).....	Do.
Psocid.....	Yam tubers.
Pyrilidae; subfam. Phycitinae.....	Agave sisalana.
Saissetia olleae (black scale).....	Sweet potato.
Sciara sp. (Mycetophilidae).....	Calathea allouya.
Wasmannia auropunctata (ant).....	Do.
PRETORIA, UNION OF SOUTH AFRICA.	
Disease: Puccinia graminis.....	Triticum aestivum.
TRINIDAD, BRITISH WEST INDIES.	
Insects: Attagenus piceus (black carpet beetle).....	Cotton seed.
Caenocorse depressus (Tenebrionidae).....	Yams.
Calandra oryza (rice weevil).....	Cotton seed.
Carpophilus dimidiatus (Nitidulidae).....	Yams.
Laemophloeus pusillus (Cucujidae).....	Do.
URUGUAY.	
Insects: Bruchus obtectus (bean weevil).....	Beans.
Bruchus pisorum (weevil).....	Do.
VENEZUELA.	
Insects: Bruchus obtectus (bean weevil).....	Beans.
Bruchus quadrimaculatus (weevil).....	Do.
Bruchus sp. (weevil).....	Beans (2).
Calandra oryza (rice weevil).....	Wheat.
Trichothrips sp. (thrips).....	Orchid.

LIST, BY STATES, OF PESTS COLLECTED AND REPORTED FROM APR. 1, 1918, TO JUNE 30, 1918, INCLUSIVE.

[The number in parentheses following name of country indicates the number of times reported if collected more than once.]

State in which collected and name of pest.	Host.	Country of origin.	Collector.
ARIZONA.			
Insect: Hemichionaspis minor (scale insect).	Yuca.....	Panama.....	?
ARKANSAS.			
Insect: Lachmus sp. (aphid).....	Biota compressa.....	France.....	J. L. Hewitt.
CALIFORNIA.			
Insects:			
Aphis sp. (aphid).....	Juniper.....	Holland.....	G. R. Wilson.
Bagworm pupa.....	Wistaria.....	France.....	F. H. Getchell.
Bruchus sp. (weevil).....	Palm seed.....	Australia.....	T. E. Stimson.
Cacoecia similis (Tortricidae).....	Pine.....	Japan.....	?
Cerambycid larva.....	Flowering cherry.....	do.....	C. H. Vary.
Cerataphis lataniae (palm aphid).....	Orchid.....	England.....	G. R. Wilson.
Cicada eggs.....	Camellia.....	Japan.....	C. H. Vary.
Coccus hesperidum (soft brown scale).	Orchid.....	England.....	G. R. Wilson.
Lepidosaphes ulmi (oyster-shell scale).	Boxwood.....	Holland (3).....	Do.
Lepidosaphes sp. (scale insect).....	Orchid.....	Ceylon.....	?
Pseudonidia duplex (scale insect).....	Azalea.....	Japan.....	C. H. Vary.
Do.....	Camellia.....	do.....	Do.
Pseudococcus sp. (mealybug).....	Pine (umbrella).....	do.....	G. R. Wilson.
Do.....	Sciadopitys verticillata.....	do.....	D. P. T. MacDonald.
Psyllid.....	Azalea.....	do.....	C. H. Vary.
Pulvinaria vitis (scale insect).....	Yew.....	Holland.....	?
CONNECTICUT.			
Insects:			
Acronycta sp. (Noctuidae).....	Rose.....	France.....	B. H. Walden.
Alphitophagus bifasciatus (Tenebrionidae).	In packing.....	England.....	M. P. Zappe.
Do.....	Rose.....	do.....	Do.
Emphytus cinctus (sawfly).....	do.....	France (2).....	B. H. Walden.
Do.....	do.....	do.....	M. P. Zappe.
Eriosoma lanigera (woolly aphid).....	Apple stock.....	France.....	E. D. Brown.
Lepidosaphes ulmi (oyster-shell scale).	Boxwood.....	Holland.....	B. H. Walden.
Disease:			
Bacterium tumefaciens (crown gall)	Rose.....	France.....	M. P. Zappe.
DISTRICT OF COLUMBIA.			
Insects:			
Aeolothripoid larva.....	Chayote.....	Guatemala.....	H. L. Sanford.
Do.....	Persea americana.....	Honduras.....	Do.
Agromyzid pupa case.....	Herb used for tea.....	Peru.....	E. H. Dusham.
Anisolabis sp. (earwig).....	In packing box.....	Brazil.....	H. L. Sanford.
Aonidiella sp. (scale insect).....	Citrus excelsa.....	Philippine Islands.....	Do.
Araecerus fasciculatus (coffee-bean weevil).	Cedron.....	Costa Rica.....	Do.
Do.....	Pangium edule.....	Java.....	E. H. Dusham.
Do.....	Peas.....	Chile.....	Do.
Aspidiotus hederæ (ivy scale).....	Cytisus maderensis.....	Canary Islands.....	Do.
Aspidiotus lataniae (scale insect).....	Aleurites trisperma.....	Philippine Islands.....	H. L. Sanford.
Do.....	Antigonon leptopus.....	Brazil.....	E. R. Sasscer.
Do.....	Avocado.....	Guatemala.....	Do.
Do.....	Cactaceae.....	Mexico.....	E. H. Dusham.
Do.....	Guava.....	Brazil.....	E. R. Sasscer.

List, by States, of pests collected and reported from Apr. 1, 1918, to June 30, 1918, inclusive—Continued.

[The number in parentheses following name of country indicates the number of times reported if collected more than once.]

State in which collected and name of pest.	Host.	Country of origin.	Collector.
DISTRICT OF COLUMBIA—continued.			
Insects—Continued.			
Aspidiotus perniciosus (San Jose scale).	Pyrus ussuriensis.	China.	H. F. Dietz.
Do.	Pyrus sp.	do.	H. L. Sanford.
Do.	do.	do.	C. A. Weigel.
Aspidiotus sp. (scale insect).	Avocado.	Guatemala.	J. T. Rogers.
Do.	do.	do.	H. L. Sanford.
Do.	Pangium leaves.	Java.	E. H. Dusham.
Belonia unicastata (Lathridiidae).	Vitis sp.	Mexico.	H. F. Dietz.
Blabophanes crocicapitella (Tineidae).	Narcissus bulbs.	Holland.	Do.
Brachypeplus sp. (Nitidulidae).	Beans.	Argentina.	H. L. Sanford.
Bruchus chinensis (weevil).	do.	Colombia.	E. H. Dusham.
Bruchus obtectus (bean weevil).	do.	Argentina.	Do.
Do.	do.	Brazil (3).	Do.
Do.	do.	Brazil.	N. Perrine.
Do.	do.	Brazil (3).	H. L. Sanford.
Do.	do.	Brazil.	C. A. Weigel.
Do.	do.	Colombia.	E. H. Dusham.
Do.	do.	Colombia (2).	C. A. Weigel.
Do.	do.	Uruguay.	H. L. Sanford.
Do.	do.	Venezuela.	C. A. Weigel.
Do.	?	Mexico.	H. F. Dietz.
Bruchus pectoralis (weevil).	Beans.	Brazil.	E. H. Dusham.
Do.	do.	do.	N. Perrine.
Do.	do.	do.	H. L. Sanford.
Bruchus pisorum (weevil).	do.	Uruguay.	C. A. Weigel.
Bruchus prosopis (mesquite weevil).	Prosopis juliflora.	Argentina.	H. L. Sanford.
Bruchus quadrimaculatus (weevil).	Beans.	Colombia.	E. H. Dusham.
Do.	do.	do.	C. A. Weigel.
Do.	do.	Venezuela.	Do.
Do.	Chick-peas.	Colombia.	Do.
Bruchus sp. (weevil).	Acacia catechu.	Egypt.	H. L. Sanford.
Do.	Acacia wellifera.	do.	E. H. Dusham.
Do.	do.	do.	H. L. Sanford.
Do.	Beans.	Brazil.	E. H. Dusham.
Do.	do.	do.	N. Perrine.
Do.	do.	do.	H. L. Sanford.
Do.	do.	Colombia.	E. H. Dusham.
Do.	do.	Colombia (2).	C. A. Weigel.
Do.	do.	Peru.	E. H. Dusham.
Do.	do.	do.	H. L. Sanford.
Do.	do.	Venezuela.	Do.
Do.	do.	do.	C. A. Weigel.
Do.	Iephresia caudida.	India.	Do.
Do.	Prosopis siliquastrum.	France.	E. H. Dusham.
Caenocorse depressus (Tenebrionidae).	Yams.	Trinidad, B. W. I.	C. A. Weigel.
Calandra oryza (rice weevil).	Apple seed.	Canal Zone.	E. H. Dusham.
Do.	Beans.	Brazil (2).	Do.
Do.	do.	Brazil.	H. L. Sanford.
Do.	do.	British Guiana.	Do.
Do.	do.	do.	C. A. Weigel.
Do.	do.	Colombia.	E. H. Dusham.
Do.	do.	do.	C. A. Weigel.
Do.	Chick-peas.	do.	Do.
Do.	do.	Peru.	E. H. Dusham.
Do.	Dioscorea sp.	Porto Rico.	C. A. Weigel.
Do.	Lentils.	Colombia.	E. H. Dusham.
Do.	Nuts.	Brazil.	C. A. Weigel.
Do.	Owalla seed.	Gabun, Africa.	E. H. Dusham.
Do.	Papaver somniferum.	Japan.	H. L. Sanford.
Do.	Rice.	China.	E. H. Dusham.
Do.	Vetch.	Colombia.	Do.
Do.	Wheat.	Venezuela.	Do.

List, by States, of pests collected and reported from Apr. 1, 1918, to June 30, 1918, inclusive—Continued.

[The number in parentheses following name of country indicates the number of times reported if collected more than once.]

State in which collected and name of pest.	Host.	Country of origin.	Collector.
DISTRICT OF COLUMBIA—continued.			
Insects—Continued.			
Camponotus sp. (ant).....	Yam tubers.....	Porto Rico.....	H. L. Sanford.
Do.....	?.....	Costa Rica.....	C. A. Weigel.
Cardiastethus sp. (Anthocoridae).....	Pangium edule.....	Java.....	E. H. Dusham.
Carpophilus dimidiatus (Nitidulidae).....	Dioscorea sp.....	Porto Rico.....	H. L. Sanford.
Do.....	Yams.....	Trinidad, B. W. I.....	C. A. Weigel.
Carpophilus sp. (Nitidulidae).....	Yam tubers.....	Porto Rico.....	H. L. Sanford.
Caryoborus sp. (Bruchidae).....	Cocoa bean.....	Paraguay.....	N. Perrine.
Do.....	Nuts.....	Brazil.....	E. H. Dusham.
Cathartus sp. (Cucujidae).....	Pangium edule.....	Java.....	Do.
Cermatia forceps (common house centipede).....	Yam tubers.....	Porto Rico.....	H. L. Sanford.
Chimabacche fagella (Oecophoridae).....	Rhododendron.....	Holland.....	H. F. Dietz.
Chionaspis citri (scale insect).....	Citrus medica.....	China.....	H. L. Sanford.
Chionaspis sp. (scale insect).....	Derris uliginosa.....	Fiji Islands.....	E. H. Dusham.
Do.....	Tamarix.....	Japan.....	E. R. Sasscer.
Chrysomphalus dictyospermi (scale insect).....	Attalea cohune oleaginosa.....	Mexico.....	Do.
Chrysomphalus sp. (scale insect).....	Avocado.....	Guatemala.....	H. F. Dietz.
Do.....	do.....	do.....	E. R. Sasscer.
Coccinae (soft scale).....	do.....	do.....	Do.
Coccotrypes sp. (Scolytidae).....	Archontophoenix cunninghamii.....	Ceylon.....	Do.
Do.....	Eutarpe edulis.....	do.....	C. A. Weigel.
Coccus elongatus (scale insect).....	Avocado.....	Guatemala.....	E. R. Sasscer.
Coccus hesperidum (soft brown scale).....	Cytisus maderensis.....	Canary Islands.....	E. H. Dusham.
Coccus sp. (scale insect).....	Avocado.....	Guatemala.....	E. R. Sasscer.
Corticaria sp. (Lathridiidae).....	Solanum khasianum.....	India.....	C. A. Weigel.
Delichoderus bituberculatus (ant).....	Pangium edule.....	Java.....	E. H. Dusham.
Dialeurodes sp. (white fly).....	do.....	do.....	Do.
Diapsis echinocacti cacti (scale insect).....	Cactus dyeri.....	Honduras.....	N. Perrine.
Do.....	Lygocactus.....	Brazil.....	H. F. Dietz.
Diapsis pentagona (West Indian peach scale).....	Actinidia chinensis.....	China.....	H. L. Sanford.
Do.....	Bush cherry.....	do.....	C. A. Weigel.
Do.....	Litchi.....	Hawaii.....	H. L. Sanford.
Diapsis sp. (scale insect).....	Avocado.....	Guatemala.....	E. R. Sasscer.
Diatraea sp. (Pyralidae).....	"ose bamboo" sugar-cane.....	Japan.....	Do.
Euborellia annuleipes (Forficulidae).....	Dioscorea sp.....	Porto Rico.....	E. H. Dusham.
Fulvius sp. (Miridae).....	Soil.....	Brazil.....	H. L. Sanford.
Haptoneus sp. (Nitidulidae).....	"Rose bamboo" sugar cane.....	Japan.....	C. A. Weigel.
Heliothrips haemorrhoidalis (green-house thrips).....	Azalea.....	Belgium.....	H. L. Sanford.
Howardia biclavus (mining scale).....	?.....	Brazil.....	E. R. Sasscer.
Laemophloeus pusillus (Cucujidae).....	Yams.....	Trinidad, B. W. I.....	C. A. Weigel.
Laria rufimana (weevil).....	Beans.....	Colombia.....	E. H. Dusham.
Lasioderma serricorne (cigarette beetle).....	do.....	British Guiana.....	H. L. Sanford.
Do.....	do.....	do.....	C. A. Weigel.
Do.....	Indigofera suffruticosa seed.....	Java.....	E. H. Dusham.
Lecanium corni (European fruit Lecanium).....	Rose.....	England.....	H. L. Sanford.
Lepidosaphes beckii (purple scale).....	Citrus excelsa.....	Philippine Islands.....	Do.
Do.....	Citrus sp.....	Brazil.....	E. H. Dusham.
Lophocateres pusillus (Siamese grain beetle).....	Chick-peas.....	Colombia.....	C. A. Weigel.
Do.....	Nuts.....	Brazil.....	Do.

List, by States, of pests collected and reported from Apr. 1, 1918, to June 30, 1918, inclusive—Continued.

[The number in parentheses following name of country indicates the number of times reported if collected more than once.]

State in which collected and name of pest.	Host.	Country of origin.	Collector.
DISTRICT OF COLUMBIA—continued.			
Insects—Continued.			
Monomorium destructor (ant).....	Borassus flabelliformis.....	Ceylon.....	C. A. Weigle.
Do.....	Yam tubers.....	Porto Rico.....	H. L. Sanford.
Mycetophilid larva.....	Pangium edule.....	Java.....	E. H. Dusham.
Nitidulid larva.....	Dioscorea sp.....	Porto Rico.....	Do.
Orthaea vineta (Lygaeidae).....	Soil.....	Brazil.....	E. R. Sasscer.
Orthezia insignis (scale insect).....	Coleus.....	do.....	Do.
Oxycarenus luctuosus (Lygaeidae).....	Cotton seed.....	Australia.....	E. H. Dusham.
Pagiocerus rimosus (Bostrichidae).....	Chick-peas.....	Peru.....	Do.
Parlatoria chinensis (scale insect).....	Pyrus.....	China.....	Do.
Parlatoria pergandei (chaff scale).....	Citrus excelsa.....	Philippine Is-lands.	H. L. Sanford.
Pheidole sp. (ant).....	In soil.....	Brazil.....	C. A. Weigle.
Phenacaspis sp. (scale insect).....	Pangium leaves.....	Java.....	E. H. Dusham.
Poduriid.....	Yam tubers.....	Porto Rico.....	H. L. Sanford.
Polygnotus sp. (Platygastridae).....	Herb used for tea.....	Peru.....	E. H. Dusham.
Prenolepis longicornis (ant).....	Yam tubers.....	Porto Rico.....	C. A. Weigle.
Prenolepis sp. (ant).....	Aleurites trisperma.....	Philippine Is-lands.	Do.
Do.....	Lilium sp.....	China.....	H. L. Sanford.
Pseudococcus adonium (long-tailed mealybug).....	Dioscorea sp.....	Porto Rico.....	C. A. Weigle.
Pseudococcus bromeliae (pine-apple mealybug).....	Calathea allouya.....	do.....	H. F. Dietz.
Do.....	do.....	do.....	C. A. Weigle.
Pseudococcus citri (common mealybug).....	Dioscorea sp.....	do.....	Do.
Pseudoparlatoria ostreata (scale insect).....	do.....	do.....	E. H. Dusham.
Pseudoparlatoria parlatorioides (scale insect).....	Guava.....	Brazil.....	E. R. Sasscer.
Pseudoparlatoria sp. (scale insect).....	Jaboticaba.....	do.....	C. A. Weigle.
Psocid.....	Apple seed.....	Canal Zone.....	Do.
Do.....	Yam tubers.....	Porto Rico.....	H. L. Sanford.
Ptinid larva.....	Beans.....	Colombia.....	E. H. Dusham.
Pynoscelus surinamensis (Blattidae).....	In-packing box.....	Brazil.....	H. L. Sanford.
Pyrilidae; subfam. Phycitinae.....	Agave sisalana.....	Porto Rico.....	Do.
Pyrilid.....	Beans.....	Colombia (2).....	E. H. Dusham.
Do.....	Sabinea cardinalis seed.....	Dominica, B. W. I.....	C. A. Weigle.
Saissetia hemisphaerica (hemispherical scale).....	Solanum.....	Costa Rica.....	Do.
Saissetia oleae (black scale).....	Sweet potato.....	Porto Rico.....	N. Perrine.
Saissetia sp. (scale insect).....	Lichti.....	Hawaii.....	H. L. Sanford.
Scarabaeid larva.....	In soil.....	Australia.....	H. F. Dietz.
Sciara sp. (Mycetophilidae).....	Calathea allouya.....	Porto Rico.....	E. H. Dusham.
Do.....	Dahlia bulbs.....	England.....	H. L. Sanford.
Do.....	Mango.....	Brazil.....	E. H. Dusham.
Silvanus advena (Cucujidae).....	Apple seed.....	Canal Zone.....	C. A. Weigle.
Silvanus surinamensis (saw-toothed grain beetle).....	Papaver somniferum.....	Japan.....	H. L. Sanford.
Silvanus vulgaris (Cucujidae).....	Naseberry.....	Canal Zone.....	C. A. Weigle.
Sitotroga cerealella (Angoumois grain moth).....	Beans.....	Argentina.....	H. L. Sanford.
Do.....	do.....	Brazil (3).....	E. H. Dusham.
Do.....	do.....	Brazil.....	H. L. Sanford.
Spermophagus sp. (Bruchidae).....	Manzanula seeds.....	Curacao, D. W. I.....	Do.
Syrphidae.....	Herb used for tea.....	Peru.....	E. H. Dusham.
Tenebroides mauritanica (Trogositidae).....	Papaver somniferum.....	Japan.....	H. L. Sanford.
Tetramorium caespitum (ant).....	Sedum.....	France.....	C. A. Weigle.
Tetramorium guineense (ant).....	Mango seed.....	Canal Zone.....	H. L. Sanford.
Tettigonia sp. (Cicadellidae).....	Eucommia ulmoides.....	China.....	E. H. Dusham.

List, by States, of pests collected and reported from Apr. 1, 1918, to June 30, 1918, inclusive—Continued.

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State in which collected and name of pest.	Host.	Country of origin.	Collector.
DISTRICT OF COLUMBIA—continued.			
Insects—Continued.			
Tineid larva.....	Sinapis nigra seed.....	Chile.....	E. H. Dusham.
Trichothrips sp. (thrips).....	Leptospermum seed.....	New Zealand.....	J. R. Horton.
Do.....	Orchid.....	Venezuela.....	Do.
Trypetid larva.....	Rosa willmottiae.....	England.....	E. H. Dusham.
Vinsonia stellifera (star scale).....	Maranon fruits.....	Canal Zone.....	Do.
Wasmannia auropunctata (ant).....	Calathea allouya.....	Porto Rico.....	Do.
Diseases:			
Alternaria sp.....	Oryza sativa.....	China.....	A. H. Gilbert.
Bacterium tumefaciens (hairy root).....	Malus sylvestris.....	France.....	J. T. Rogers.
Botryodiplodia staurochaeta.....	Quercus sp.....	Colombia.....	A. H. Gilbert.
Botrytis sp.....	Rosa davidii seed.....	England.....	J. T. Rogers.
Do.....	Rosa macrophylla seed.....	do.....	Do.
Do.....	Rosa willmottiae seed.....	do.....	Do.
Do.....	Rosa Woodsii seed.....	do.....	Do.
Capulospora sp.....	Canarium mikoinensis.....	Java.....	H. F. Dietz.
Chaetodiplodia sp.....	Quercus sp.....	Colombia.....	A. H. Gilbert.
Colletotrichum sp.....	Avocado.....	Guatemala.....	J. T. Rogers.
Diplodia perseana.....	do.....	Peru.....	Do.
Diplodia sp.....	Livistona australis.....	France.....	A. H. Gilbert.
Lasioidiplodia theobromae.....	Mangifera indica.....	Canal Zone.....	Do.
Pestalozzia funerea.....	Nephelium litchi.....	Hawaii.....	C. H. Kauffman.
Pestalozzia sp.....	Epigaea asicatica.....	Japan.....	J. T. Rogers.
Do.....	Rhododendron.....	Holland.....	Do.
Phoma sp.....	Zea mays.....	Peru.....	Do.
Puccinia graminis.....	Triticum aestivum.....	Pretoria, Union of South Africa.....	Do.
Pyrenochaeta sp.....	Phytelephas seed.....	Costa Rica.....	A. H. Gilbert.
Rhizoctonia solani.....	Solanum tuberosum.....	Colombia.....	?
Schizothyrella sp.....	Aucuba.....	Holland.....	J. T. Rogers.
Sclerotinia sp.....	Raphanus sativus.....	Japan.....	Do.
Sporotrichum sp.....	Litchi chinensis.....	Hawaii.....	C. H. Kauffman.
Trichothecium roseum.....	do.....	do.....	Do.
Ustilago maydis.....	Zea mays.....	Mexico.....	A. H. Gilbert.
GEORGIA.			
Insect:			
Lecanium sp. (scale insect).....	Camellia.....	France.....	W. F. Turner.
ILLINOIS.			
Insects:			
Julus sp. (millipede).....	Peony bulbs.....	Holland.....	P. A. Glenn.
Lecanium sp. (scale insect).....	Ampelopsis.....	France.....	Do.
IOWA.			
Insects:			
Aegeria sp. (Sesiidae).....	Populus bolleana.....	France.....	H. Ness.
Apatela auricoma (dagger moth) (pupa).....	Mahaleb.....	do.....	Do.
Do.....	Myrobolan.....	do.....	Do.
Do.....	Spirea.....	Holland.....	Do.
Do.....	Viburnum opulus.....	France.....	Do.
Notolophus antiqua (European tussock moth) (egg mass).....	Doucine stock.....	do.....	Do.
Do.....	Linden (American).....	Holland.....	Do.
Do.....	Myrobolan.....	France.....	Do.
Do.....	Quince.....	do.....	Do.
Do.....	Rose.....	Holland.....	Do.
KENTUCKY.			
Disease:			
Bacterium tumefaciens (crown gall).....	Cherry (weeping).....	Holland.....	H. R. Niswonger.

List, by States, of pests collected and reported from Apr. 1, 1918, to June 30, 1918, inclusive—Continued.

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State in which collected and name of pest.	Host.	Country of origin.	Collector.
MARYLAND.			
Insects:			
Hibernia aurantiana (Geometridae) (pupae).	Rhododendron.....	Holland.....	C. B. Nickels.
Lecanium corni (European fruit Lecanium).	Boxwood.....	do.....	Do.
Lepidosaphes ulmi (oyster-shell scale).	do.....	Holland (3).....	Do.
MASSACHUSETTS.			
Insects:			
Lecanium persicae (European peach scale).	Peach.....	England.....	L. H. Taylor.
Lepidosaphes ulmi (oyster-shell scale).	Boxwood.....	Holland.....	C. W. Nash.
Pieris sp. (Pieridae).....	Rose.....	do.....	L. H. Taylor.
Disease:			
Exobasidium sp.....	Rhododendron.....	England.....	L. H. Taylor.
Do.....	do.....	Holland.....	C. W. Nash.
NEW JERSEY.			
Insects:			
Aspidiotus hederæ (ivy scale).....	Orchid.....	England.....	A. S. Nicolay.
Gracilaria zachrysa (leaf miner).....	Azalea.....	Holland (4).....	Do.
Do.....	do.....	Japan.....	Do.
Leptobyrssa rhododendri (Tingitidae).	Rhododendron.....	Holland.....	Do.
Monarthropalpus buxi (box leaf miner).	Kalmia latifolia.....	England.....	C. A. Schwarze.
Psylla buxi (box psylla).....	Boxwood.....	Holland (5).....	A. S. Nicolay.
Diseases:			
Bacterium tumefaciens (crown gall).	do.....	Holland.....	C. A. Schwarze.
Do.....	Euonymus japonica.....	France.....	Do.
Botrytis cinerea.....	Ornamentals.....	do.....	Do.
Do.....	Rose.....	Holland.....	Do.
Septoria leaf spot.....	Kalmia latifolia.....	England.....	Do.
Sphaeropsis malorum.....	Malus (ornamental).....	Holland.....	Do.
Verticillium.....	Spirea.....	France.....	Do.
Volutella buxi.....	Boxwood.....	Holland.....	Do.
NEW YORK CITY (FEDERAL INSPECTION).			
Insects:			
Araecerus fasciculatus (coffee-bean weevil).	Nuts.....	Brazil.....	D. G. Tower.
Araecerus sp. (Anthribidae).....	do.....	do.....	Do.
Aspidiotus lataniae (scale insect).....	Sago palm.....	Bermuda.....	Do.
Attagenus piceus (black carpet beetle).	Cotton seed.....	Trinidad, B.W. I.	H. B. Shaw.
Calandra oryza (rice weevil).....	do.....	do.....	Do.
Caryoborus sp. (Bruchidae).....	Nuts.....	Brazil.....	K. B. Brown.
Do.....	do.....	Brazil (2).....	D. G. Tower.
Diaspis zamiae (scale insect).....	Palm offshoot.....	Bermuda.....	H. B. Shaw.
Pyralid.....	Nuts.....	Brazil.....	Do.
Silvanus surinamensis (saw-toothed grain beetle).	do.....	do.....	D. G. Tower.
Stephanoderes sp. (Scolytidae).....	do.....	do.....	K. B. Brown.
Targionia biformis (scale insect).....	Orchid.....	Canal Zone.....	H. B. Shaw.
Tineidae.....	Nuts.....	Brazil.....	K. B. Brown.
Tribolium ferrugineum (rust-red flour beetle).	do.....	do.....	H. B. Shaw.

List, by States, of pests collected and reported from Apr. 1, 1918, to June 30, 1918, inclusive—Continued.

[The number in parentheses following name of country indicates the number of times reported if collected more than once.]

State in which collected and name of pest.	Host.	Country of origin.	Collector.
OHIO.			
Insects:			
Apatela auricoma (dagger moth)...	Apple seedlings.....	France.....	R. Faxon.
Do.....	Plum.....	do.....	W. E. Evans.
Do.....	Rose.....	England.....	F. D. Hechathorn.
Do.....	do.....	France.....	W. E. Evans.
Do.....	do.....	Holland.....	F. D. Hechathorn.
Do.....	Spirea Thunbergii.....	France.....	E. W. Mendenhall.
Do.....	?	Holland.....	W. E. Evans.
Cynipid.....	Rose seedlings.....	France.....	R. Faxon.
Malacosoma disstria (forest tent caterpillar) (eggs).	Ulmus latifolia.....	do.....	F. D. Hechathorn.
Tortrix pronubana (Tortricidae, subfam. Tortricinae).	Mahonia.....	do.....	E. C. Cotton.
Disease:			
Bacterium tumefaciens (crown gall).	Rose.....	France.....	R. Faxon.
Do.....	do.....	Holland.....	F. D. Hechathorn.
PENNSYLVANIA.			
Insects:			
Acronycta rumicis (Noctuidae) (cocoon).	Cydonia japonica umbellata.	France.....	J. K. Primm.
Do.....	Deutzia.....	do.....	F. L. Holdridge.
Do.....	Fagus sylvatica.....	do.....	F. M. Trimble.
Do.....	Forsythia fortunei.....	do.....	J. K. Primm.
Do.....	Mahaleb stock.....	do.....	M. E. Shay.
Do.....	Populus bolleana pyramid.....	do.....	F. L. Holdridge.
Acronycta sp. (Noctuidae).....	Spirea apulifolia.....	do.....	F. M. Trimble.
Do.....	Weigelia lutea.....	do.....	Do.
Agelastica alni (Chrysomelidae)...	Juniperus fitzeriana.....	Holland.....	Do.
Amphidasys betularius (Geometridae).	In soil.....	do.....	J. K. Primm.
Apatela auricoma (dagger moth)...	Azalea viscosa.....	do.....	F. M. Trimble.
Do.....	Myrobalan stock.....	France.....	M. E. Shay.
Aspidiotus britannicus (scale insect).	Boxwood.....	England.....	A. W. Buckman.
Aspidiotus hederæ (ivy scale).....	Ilex crenata.....	Japan.....	J. K. Primm.
Aspidiotus sp. (scale insect).....	Japanese maple.....	do.....	F. M. Trimble.
Chionaspis wistariae (wistaria scale).	Wistaria multijuga.....	do.....	Do.
Do.....	Wistaria.....	do.....	Do.
Eriosoma lanigera (wooly aphid)...	Apple stock.....	France.....	J. K. Primm.
Euproctis chrysorrhoe (brown-tail moth) (nest).	do.....	do.....	M. E. Shay.
Do.....	Crataegus flora.....	do.....	F. M. Trimble.
Do.....	Fagus sylvatica.....	do.....	Do.
Do.....	Prunus pissardi.....	do.....	H. L. Holdridge.
Do.....	Sorbus aucuparia.....	do.....	F. M. Trimble.
Lecanium coryli (scale insect).....	?	England.....	J. K. Primm.
Lecanium persicae (European peach scale).	Berberis purpurea.....	France.....	F. L. Holdridge.
Lepidosaphes ulmi (oyster-shell scale).	Boxwood.....	do.....	A. W. Buckman.
Do.....	do.....	do.....	F. M. Trimble.
Do.....	do.....	Holland.....	A. W. Buckman.
Do.....	Crataegus.....	England.....	F. M. Trimble.
Do.....	Malus floribunda.....	France.....	F. L. Holdridge.
Do.....	Mespilus.....	England.....	F. M. Trimble.
Do.....	Vaccinium sp.....	Holland.....	J. K. Primm.
Leptobyrza explanata (Tingitidae).	Rhododendron.....	England.....	F. M. Trimble.
Do.....	do.....	Holland.....	M. E. Shay.
Leptobyrza sp. (Tingitidae).....	do.....	England.....	J. K. Primm.
Leucaspis japonica (scale insect)...	Japanese maple.....	Japan.....	F. M. Trimble.
Liparidae.....	Acer platanoides.....	France.....	F. L. Holdridge.
Monarthropalpus buxi (box leaf miner).	Boxwood.....	England.....	A. W. Buckman.

List, by States, of pests collected and reported from Apr. 1, 1918, to June 30, 1918, inclusive—Continued.

[The number in parentheses following name of country indicates the number of times reported if collected more than once.]

State in which collected and name of pest.	Host.	Country of origin.	Collector.
PENNSYLVANIA—continued.			
Insects—Continued.			
Noctuid.....	Crataegus.....	Holland.....	F. M. Trimble.
Noctuid cocoon.....	Myrobolan stock.....	France.....	M. E. Shay.
Noctuid pupa.....	Acer platanoides.....	do.....	J. K. Primm.
Do.....	Spirea multiflora.....	do.....	F. L. Holdridge.
Notolophus antiqua (European tussock moth) (egg mass).	Cerasus sp.....	Holland.....	F. M. Trimble.
Do.....	Quince stock.....	France.....	A. W. Buckman.
Do.....	Rose.....	Holland.....	F. M. Trimble.
Notolophus sp. (Liparidae).....	American beech.....	do.....	Do.
Do.....	Sugar maple.....	do.....	J. K. Primm.
Olethreutidae.....	Cotoneaster acutifolia.....	England.....	Do.
Pieris brassicae (imported cabbage worm) (chrysalis).	Corylus avellana.....	France.....	F. L. Holdridge.
Pieris sp. (Pieridae).....	Spirea.....	Holland.....	J. K. Primm.
Porthesia similis (gold-tail moth).	Cerasus avium.....	France.....	Do.
Do.....	Japanese maple.....	Holland.....	Do.
Porthetria dispar (gipsy moth) (pupa).	Quince stock.....	France.....	Do.
Pseudonidia paeoniae (scale insect).	Azalea hinodegiri.....	Japan.....	Do.
Psyche villosella (Psychidae) (cocoon).	Populus pyramidalis.....	France.....	F. L. Holdridge.
Psylla buxi (box psylla).....	Boxwood.....	Holland.....	J. K. Primm.
Sesiid larva.....	Prunus pseudocerasus.....	Japan.....	F. M. Trimble.
Sphingid.....	Bignonia grandiflora.....	France.....	Do.
Tortricid pupa.....	Mahonia Aquifolium.....	do.....	F. L. Holdridge.
Diseases:			
Bacterium tumefaciens (crown gall).	Apple stock.....	do.....	A. W. Buckman.
Do.....	do.....	do.....	J. K. Primm.
Do.....	do.....	do.....	F. M. Trimble.
Do.....	Azalea.....	Holland (2).....	F. L. Holdridge.
Do.....	Cherry stock.....	France.....	F. M. Trimble.
Do.....	Fruit stock.....	do.....	P. T. Barnes.
Do.....	Mahaleb stock.....	do.....	F. M. Trimble.
Do.....	Pear stock.....	do.....	J. K. Primm.
Do.....	Rose stock.....	do.....	A. W. Buckman.
Do.....	do.....	do.....	J. K. Primm.
Pestalozzia guepini.....	Rhododendron.....	Holland.....	F. M. Trimble.
SOUTH CAROLINA.			
Insect:			
Lepidosaphes ulmi (oyster-shell scale).	?.....	Holland.....	G. M. Anderson.
SOUTH DAKOTA.			
Disease:			
Bacterium tumefaciens (crown gall).	Betula atropurpurea.....	France.....	G. Gilbertson.
TENNESSEE.			
Insect:			
Lachnosterna larva.....	In soil.....	France.....	G. M. Bentley.
WASHINGTON (STATE).			
Insect:			
Agromyza websteri (wistaria gall fly).	Wistaria.....	Japan.....	F. N. Rhodes.
WISCONSIN.			
Insect:			
Notolophus antiqua (European tussock moth) (egg mass).	Spirea arguta.....	France.....	S. B. Fracker.
Disease:			
Pestalozzia guepini.....	Rhododendron.....	Holland.....	Do.

LIST OF CURRENT QUARANTINE AND OTHER RESTRICTIVE ORDERS.

QUARANTINE ORDERS.

The numbers assigned to these quarantines indicate merely the chronological order of issuance of both domestic and foreign quarantines in one numerical series. The quarantine numbers missing in this list are quarantines which have either been superseded or revoked. For convenience of reference these quarantines are here classified as domestic and foreign.

DOMESTIC QUARANTINES.

Date palms.—Quarantine No. 6: Regulates the interstate movement of date palms or date-palm offshoots from Riverside County, Cal., east of the San Bernardino meridian; Imperial County, Cal.; Yuma, Maricopa, and Pinal Counties, Ariz.; and Webb County, Tex., on account of the Parlatoria scale (*Parlatoria blanchardi*) and the Phoenicococcus scale (*Phoenicococcus marlatti*).

Cotton seed and cottonseed hulls.—Quarantine No. 9: Prohibits the importation of cotton seed and cottonseed hulls from the Territory of Hawaii on account of the pink bollworm.

Hawaiian fruits.—Quarantine No. 13: Prohibits or regulates the importation from Hawaii of all fruits and vegetables, in the natural or raw state, on account of the Mediterranean fruit fly and the melon fly.

Sugar cane.—Quarantine No. 16: Prohibits the importation from Hawaii and Porto Rico of living canes of sugar cane or cuttings or parts thereof, on account of certain injurious insects and fungus diseases.

Cotton.—Quarantine No. 23, revised: Regulates the movement of cotton from Hawaii to the continental United States, on account of the pink bollworm.

Five-leaved pines, Ribes, and Grossularia.—Quarantine No. 26: Prohibits the interstate movement of five-leaved pines, currant and gooseberry plants from all States east of and including the States of Minnesota, Iowa, Missouri, Arkansas, and Louisiana to points outside of this area; prohibits, further, the interstate movement of five-leaved pines and black currant plants to points outside the area comprising the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, and New York.

Sweet potato and yam.—Quarantine No. 30: Prohibits the movement from the Territories of Hawaii and Porto Rico into or through any other Territory, State, or District of the United States of all varieties of sweet potatoes and yams (*Ipomoea batatas* and *Dioscorea* spp.), regardless of the use for which the same are intended, on account of the sweet potato weevil (*Cylas formicarius*) and the sweet potato scarabee (*Euscepes batatae*).

Banana plants.—Quarantine No. 32: Prohibits the movement from the Territories of Hawaii and Porto Rico into or through any other Territory, State, or District of the United States of all species and varieties of banana plants (*Musa* spp.), regardless of the use for which the same are intended, on account of two injurious weevils, namely, *Rhabdocnemis obscurus* and *Metamastus hemipterus*.

Gipsy moth and brown-tail moth.—Quarantine No. 33: Regulates the movement interstate to any point outside of the quarantined towns and territory, or from points in the generally infested area to points in the lightly infested area, of stone or quarry products and of the plants and the plant products listed therein. This quarantine covers portions of the New England States.

FOREIGN QUARANTINES.

Irish potato.—Quarantine No. 3: Prohibits the importation of the common or Irish potato from Newfoundland; the islands of St. Pierre and Miquelon; Great Britain, including England, Scotland, Wales, and Ireland; Germany; and Austria-Hungary on account of the disease known as potato wart.

Mexican fruits.—Quarantine No. 5, as amended: Prohibits the importation of oranges, sweet limes, grapefruit, mangoes, achras sapotes, peaches, guavas, and plums from the Republic of Mexico, on account of the Mexican fruit fly.

Five-leaved pines, Ribes and Grossularia.—Quarantine No. 7, as amended: Prohibits the importation from each and every country of Europe and Asia and from the Dominion of Canada and Newfoundland of all five-leaved pines and all species and varieties of the genera *Ribes* and *Grossularia*, on account of the white-pine blister rust.

Cotton seed and cottonseed hulls.—Quarantine No. 8, as amended: Prohibits the importation from any foreign locality and country, excepting only the locality of the Imperial Valley, in the State of Lower California, Mexico, of cotton seed (including seed cotton) of all species and varieties and cottonseed hulls, on account of the pink bollworm. Cotton and cotton seed from the Imperial Valley may be entered under permit and regulation.

Seeds of avocado or alligator pear.—Quarantine No. 12: Prohibits the importation from Mexico and the countries of Central America of the seeds of the avocado or alligator pear, on account of the avocado weevil.

Sugar cane.—Quarantine No. 15: Prohibits the importation from all foreign countries of living canes of sugar cane or cuttings or parts thereof, on account of certain injurious insects and fungus diseases. There are no restrictions on the entry of such materials into Hawaii and Porto Rico.

Citrus nursery stock.—Quarantine No. 19: Prohibits the importation from all foreign localities and countries of all citrus nursery stock, including buds, scions, and seeds, on account of the citrus canker and other dangerous citrus diseases. The term "citrus" as used in this quarantine includes all plants belonging to the subfamily or tribe *Citratæ*.

European pines.—Quarantine No. 20: Prohibits, on account of the European pine-shoot moth (*Evectria buohiana*), the importation from all European countries and localities of all pines not already excluded by quarantine No. 7.

Indian corn or maize and related plants.—Quarantine No. 24, as amended: Prohibits the importation from southeastern Asia (including India, Siam, Indo-China, and China), Malayan Archipelago, Australia, New Zealand, Oceania, Philippine Islands, Formosa, Japan, and adjacent islands, in the raw or unmanufactured state, of seed and all other portions of Indian corn or maize (*Zea mays* L.), and the closely related plants, including all species of Teosinte (*Euchlaena*), Job's tears (*Coix*), *Polytoca*, *Chionachne*, and *Sclerachne*, on account of the downy mildews and *Physoderma* diseases of Indian corn, except that Indian corn or maize may be imported on compliance with the conditions prescribed in the regulations of the Secretary of Agriculture.

Citrus fruit.—Quarantine No. 28: Prohibits the importation from eastern and southeastern Asia (including India, Siam, Indo-China, and China), the Malayan Archipelago, the Philippine Islands, Oceania (except Australia, Tasmania, and New Zealand), Japan (including Formosa and other islands adjacent to Japan), and the Union of South Africa, of all species and varieties of citrus fruits, on account of citrus canker, except that oranges of the mandarin class (including satsuma and tangerine varieties) may be imported on compliance with the conditions prescribed in the regulations of the Secretary of Agriculture.

Sweet potato and yam.—Quarantine No. 29: Prohibits the importation for any purpose of any variety of sweet potatoes or yams (*Ipomoea batatas* and *Dioscorea* spp.) from all foreign countries and localities, on account of the sweet potato weevils (*Cylas* spp.) and the sweet potato scarabee (*Euscepes batatae*).

Banana plants.—Quarantine No. 31: Prohibits the importation, for any purpose, of any species or variety of banana plants (*Musa* spp.) from all foreign countries and localities on account of the banana root borer (*Cosmopolites sordidus*).

OTHER RESTRICTIVE ORDERS.

The regulation of the entry of nursery stock from foreign countries into the United States was specifically provided for in the plant-quarantine act. The act further provides for the similar regulation of any other class of plants or plant product when the need therefor shall be determined. The entry of the plants and plant products listed below have been brought under such regulation:

Nursery stock.—Nursery stock is entered under regulations requiring a permit, foreign certification and marking, reporting arrival and distribution, and inspection at destination. The term "nursery stock" includes all field-grown florists' stock, trees, shrubs, vines, cuttings, grafts, scions, buds, fruit pits, and other seeds of fruits and ornamental trees or shrubs, and other plants and plant products for propagation, except field, vegetable, and flower seeds, bedding plants, and other herbaceous plants, bulbs, and roots.

Irish potatoes.—The importation of Irish potatoes is prohibited altogether from the countries enumerated in the potato quarantine. Potatoes may be admitted from other foreign countries in accordance with the order of December 22, 1913, bringing the entry of potatoes under restriction on account of injurious potato diseases and insect pests. The following countries have qualified for the importation of potatoes under the regulations issued under said order: Denmark, Holland, Belgium, Cuba, Bermuda, and the Dominion of Canada. The regulations issued under this order have been amended so as to permit, free of any restrictions whatsoever under the plant-quarantine act, the importation of potatoes from any foreign country into the Territories of Porto Rico and Hawaii for local use only and from the Dominion of Canada and Bermuda into the United States or any of its Territories or districts.

Avocado, or alligator pear.—The order of February 27, 1914, prohibits the importation from Mexico and the countries of Central America of the fruits of the avocado, or alligator pear, except under permit and in accordance with the other provisions of the regulations issued under said order, on account of the avocado weevil. Entry is permitted only through the port of New York and is limited to the large, thick-skinned variety of the avocado. The importation of the small, purple, thin-skinned variety of the fruit of the avocado and of avocado nursery stock under 18 months of age is prohibited.

Cotton.—The order of April 27, 1915, prohibits the importation of cotton from all foreign countries and localities, except under permit and in accordance with the other provisions of the regulations issued under said order, on account of injurious insects, including the pink bollworm. These regulations apply in part to cotton grown in and imported from the Imperial Valley, in the State of Lower California, in Mexico.

Corn.—The order of March 1, 1917 (Amendment No. 1, with Regulations, to Notice of Quarantine No. 24), prohibits the importation of Indian corn or maize in the raw or unmanufactured state from the countries and localities listed in the Notice of Quarantine No. 24, except under permit and in accordance with the other provisions of the regulations issued under said order, on account of injurious diseases of Indian corn.

Cottonseed products.—The order of June 23, 1917, prohibits the importation of cottonseed cake, meal, and all other cottonseed products, except oil, from all foreign countries, and a second order of June 23, 1917, prohibits the importation of cottonseed oil from Mexico, except under permit and in accordance with the other provisions of the regulations issued under said orders, on account of injurious insects, including the pink bollworm.

Citrus fruits.—The order of June 27, 1917 (Notice of Quarantine No. 28, with Regulations), prohibits the importation from the countries and localities listed therein of all species and varieties of citrus fruits, excepting only oranges of the mandarin class (including satsuma and tangerine varieties), on account of the citrus canker disease. Oranges of the mandarin class (including satsuma and tangerine varieties) may be imported under permit and in accordance with the other provisions of the regulations issued under said order.